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REPORT NO. 7

JAN 30 '73

# Cotton Fiber and Processing Test Results

CROP of

1977



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38122 December 16, 1977



## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1977

### Discussion of Test Results

Fiber and spinning properties of this season's short staple cottons are superior to last season's cottons. Fibers are longer, more uniform and finer than a year earlier. Fibers are stronger at both zero gage and 1/8" gage tests. Picker and card waste is lower than it was last year. Yarns spun from these samples are much stronger and have a higher spinning potential number.

Average results for all medium staple samples tested through this date a year ago show fibers to be longer, more uniform and coarser. Shirley Analyzer nonlint content is higher, but picker and card waste is lower. Yarns spun from these samples are slightly weaker and have lower appearance grades. Yarn imperfections are higher.

Medium staple samples tested from the Southeast show fibers to be slightly longer, more uniform and coarser. Fiber strength is weaker at 1/8" gage fiber strength. Yarns spun from these samples are weaker with lower appearance grades. Average spinning potential is lower.

South Central medium staple samples tested to date show fibers to be longer, more uniform and coarser. Fibers are weaker at zero gage fiber strength. Shirley Analyzer nonlint content is higher, but picker and card waste is slightly lower. Yarns spun from these samples are weaker with lower appearance grades. Yarn imperfections are higher.

Southwestern medium staple samples are longer, more uniform and stronger at zero gage strength tests. Picker and card waste is lower. Yarns spun from these samples are weaker with lower appearance grades. Imperfections and the spinning potential are both lower.

Medium staple samples from the West are slightly more uniform, coarser and stronger at zero gage than a year ago. Shirley Analyzer nonlint content is higher, while picker and card waste is lower. Yarn appearance grades are lower than a year ago. Imperfections are higher.

Southeastern area long staple samples tested are shorter and coarser than a year earlier. Both Shirley Analyzer nonlint content and picker and card waste are higher. Yarns spun from these samples are weaker with lower appearance grades. Spinning potential is lower.

South Central area long staple samples are longer, more uniform and coarser than last season. Both Shirley Analyzer nonlint content and picker and card waste are higher. Yarns spun from these samples are slightly weaker and have higher imperfections. Spinning potential is higher.

Long staple samples tested from the West show fibers to be shorter, less uniform and coarser this year. Fiber strength is stronger. Shirley Analyzer nonlint content is higher. Picker and card waste is lower than a year ago. Yarns spun from these samples are weaker. Yarn imperfections are lower. Spinning potential is lower.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.<sup>1/</sup> These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1976, USDA, AMS Cotton Division, June 1977.

Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States  
through December 9, 1977

Staple group Area, and Crop year	Lots tested	Fiber test results							Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.		
		2.5% span	50/2.5 unif.		Pct.	Rdg.			Mpsi	G/tex	Pct.		Yarn quality	
				Inches			Pct.	Rdg.				Mpsi	G/tex	Pct.
		No.	Ibs.		Index	No.			Yarn No.					
22s Carded Yarn														
Short Staple: Southwest 1976 1977	23	0.95	45	4.5	85	21	3.2	7.1	85	111	13	35		
	73	0.98	46	4.2	89	22	3.2	5.4	100	110	13	49		
Medium Staple: Southeast 1976 1977	33	1.07	45	4.6	86	23	3.2	6.3	106	100	20	56		
	34	1.08	46	4.8	86	22	3.2	6.1	96	94	20	50		
South Central 1976 1977	102	1.08	44	4.2	88	23	2.7	6.2	108	99	16	55		
	123	1.11	45	4.6	86	23	3.5	6.0	104	95	22	57		
Southwest 1976 1977	30	1.07	45	4.1	81	22	3.3	6.4	104	95	22	57		
	46	1.08	46	4.2	86	22	3.2	5.7	100	90	19	54		
West 1976 1977	40	1.12	45	4.1	90	26	2.2	5.6	121	90	19	68		
	62	1.12	46	4.3	95	26	2.5	5.2	120	86	21	69		
U.S. Average 1976 1977	205	1.08	45	4.2	87	24	2.8	6.1	109	98	18	58		
	265	1.10	46	4.5	88	23	3.2	5.8	106	92	21	58		
Significant dif- ference <u>2/</u>		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3		

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through December 9, 1977  
1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results						Processing Test Results										SPY
		Length		Unif	Mike	Strength		SA Non- lint	P&C Waste	Comber Waste	Yarn Quality					Imprfctns card	No.	
		Span	Zero gage			1/8" gage	Strength carded				Appearance combed	Indx carded	Indx combed	Indx card	No.			
No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	Indx	No.	No.			
Long Staple:																		
Southeast																		
1976	7	1.15	45	4.4	87	25	2.9	6.3	15.7	118	139	106	120	19	8	68		
1977	12	1.13	45	4.8	88	23	3.5	7.1	*	99	*	102	*	18	*	58		
South Central																		
1976	3	1.12	42	3.7	91	26	3.4	6.8	20.3	109	137	97	103	13	10	57		
1977	3	1.16	45	4.5	92	24	4.3	7.2	*	106	*	97	*	24	*	63		
West																		
1976	1	1.20	48	3.8	89	26	2.9	6.4	11.8	147	162	90	100	30	12	103		
1977	6	1.18	47	4.1	92	27	3.2	6.0	*	130	*	92	*	24	*	89		
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	5	5	5	2	2	3		

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table.

\* Combed data not available.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1977

Production Area, Classification & Sample Number				Fiber Test Results						Processing Test Results - Carded Yarns														
No	Grade	Name & Code	Stple 32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten- tial		
				2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx			
SOUTHWEST AREA																								
NORTHWEST TEXAS																								
ANSON																								
3	MID LT SP	32	31	0.93	47	3.8	90	23	LANKART 611	7.5	3.5	2	4	5.5	285	100 PERCENT	92	7.6	6.2	120	100	31	20	42
BROWNFIELD																								
2	S LM	41	33	1.01	46	4.0	87	22	GSAT1	6.3	3.1	1	4	5.5 1/2	312	80 PERCENT	106	7.8	6.3	130	110	26	16	56
GOREE																								
3	MID LT SP	32	32	1.05	47	4.6	84	23	TAMCOT SP21	6.6	2.9	1	4	4.0	314	80 PERCENT	108	7.8	6.3	130	110	20	15	60
HALE CENTER																								
2	S LM	41	33	1.03	46	4.0	87	22	GSAT1	6.9	4.0	1	3	5.6	307	85 PERCENT	105	8.3	6.5	120	100	23	16	59
LOCKNEY																								
3	MID LT SP	32	33	1.04	46	4.0	89	21	MORCOT M78	6.4	3.0	1	3	4.7	317	80 PERCENT	113	7.2	5.7	120	110	25	20	66
LOCKNEY																								
2	MID LT SP	32	31	0.96	48	4.6	81	21	PAYMASTER 18	6.7	2.6	2	3	5.4	273	80 PERCENT	90	7.3	5.8	120	120	22	16	42
LOOP																								
2	MID LT SP	32	31	0.96	47	4.3	87	20	GSAT1	6.6	3.0	1	4	4.8	289	75 PERCENT	100	7.1	5.8	130	110	21	12	52
LORENZO																								
3	MID	31	32	1.02	45	3.9	85	22	PAYMASTER 303	6.6	2.3	0	3	5.0 1/2	292	80 PERCENT	100	7.5	6.0	130	100	16	10	58
NEWCASTLE																								
2	MID LT SP	32	32	0.97	46	4.4	89	20	LANKART 57	6.5	3.2	1	4	5.5	278	95 PERCENT	96	7.1	5.7	120	100	25	17	42
PADUCAH																								
2	MID LT SP	32	31	1.01	47	4.5	86	20	LANKART 57	6.7	2.9	1	4	4.6	284	70 PERCENT	98	7.5	6.2	130	110	21	10	51
PETERSBURG																								
3	S LM	41	32	1.01	46	4.2	83	22	PAYMASTER 303	6.7	2.6	1	3	5.0	295	90 PERCENT	99	7.8	6.3	130	110	19	11	51
RALLS																								
2	S LM	41	33	1.04	45	3.5	83	22	PAYMASTER 303	7.3	3.9	1	3	6.2	300	75 PERCENT	103	8.4	6.5	130	110	23	13	55
RULE																								
3	MID LT SP	32	32	1.03	44	3.8	88	23	LANKART LX571	6.2	3.2	1	4	5.6	302	100 PERCENT	107	7.4	5.9	120	100	27	16	56



Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1977--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
No	Grade	Name & Code	Style	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial		
				2.5% span	Unif		Zero Gage	1/8" Gage		Pct	Pct	Gra	Yel		8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx		8s or 74 tx	22sor 27 tx
32s																									
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1/ Cotton stuck to processing rolls



Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977

Production Area, Classification & Sample Number				Fiber Test Results						Processing Test Results - Carded Yarns														
No	Grade	Name & Code	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprct'ns		Spin. Poten- tial		
				2.5% span	Unif.		Zero	Gage			Pct	Mpsi		G/tex	Gra	Yel	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx		50s or 12 tx	22s or 27 tx
SOUTHEAST AREA																								
ALABAMA																								
HAMILTON																								
3	MID	LT SP	32	33	1.10	44	4.5	83	22	7.3	61	1.9	2	3	4.5	92	28	5.9	4.5	80	60	17	12	52
MONTGOMERY																								
1	SLM	LT SP	42	34	1.12	47	5.0	80	22	7.5	16	2.9	3	3	5.5	101	32	5.9	4.6	90	70	31	21	59
2	SLM	LT SP	42	34	1.13	46	4.9	78	21	7.6		3.6	2	3	5.9	99	32	5.6	4.0	90	70	29	21	59
PRATTVILLE																								
2	SLM	LT SP	42	35	1.13	46	4.6	91	25	5.6	417	3.1	3	3	6.1	109	35	5.5	4.3	90	70	22	19	66
GEORGIA																								
ALLEN TOWN																								
3	SLM	LT SP	42	34	1.07	45	4.7	86	22	5.8	201	3.5	3	4	7.4	92	28	5.0	3.6	80	70	26	20	47
SHELLMAN																								
2	MID	LT SP	32	34	1.10	46	5.2	78	21	7.7	16	2.2	2	4	5.6	100	33	5.8	4.1	100	80	13	8	57
SOCIAL CIRCLE																								
1	SLM	LT SP	42	34	1.09	44	4.8	80	21	6.4	612	4.1	3	3	7.7	90	28	5.2	3.5	100	70	23	15	49
SOUTH CAROLINA																								
MAYESVILLE																								
3	SLM		41	36	1.13	47	4.5	84	23	5.9	201	2.5	2	2	5.3	109	36	5.6	4.4	90	70	21	17	64
SOUTH CENTRAL AREA																								
LOUISIANA																								
ALEXANDRIA																								
3	SLM	LT SP	42	34	1.10	44	4.3	81	22	6.7	213	3.1	3	3	5.7	85	25	5.3	3.8	70	70	30	24	51
MONROE																								
3	SLM		41	35	1.14	46	4.4	79	23	7.7	61	3.2	3	2	6.4	108	37	6.7	5.2	80	70	29	23	66
SHREVEPORT																								
3	SLM		41	35	1.11	45	5.1	81	22	7.6	16	3.4	1	2	4.9	100	32	6.0	4.4	90	80	14	12	55
MISSISSIPPI																								
BRANDON																								
3	SLM	LT SP	42	34	1.08	44	4.6	82	21	7.4	16	3.5	3	3	6.2	85	29	5.3	3.9	90	70	17	17	42
EDWARDS																								
41	34	1.10	45	4.7	78	21	6.7	213	2.5	2	2	4.9	100	34	5.8	4.5	100	70	21	13	58			

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
Grade & Code		Style	32s	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8" Gage	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potential	
				2.5% span	Unif.		Zero	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		
SOUTHWEST AREA																							
NORTHWEST TEXAS																							
3	MID LT SP	32	31	0.96	44	3.4	88	22	6.8	3.5	2	3	6.6	83	23 1/2	5.3	4.3	80	70	23	27	25	
TAMCOT SP37																							
3	SLM PLUS	40	36	1.17	46	4.7	87	24	6.7	3.6	1	3	5.5	114	39	5.8	4.5	70	70	33	24	61	
COKER 312																							
3	SLM PLUS	40	36	1.14	43	3.6	81	22	7.6	3.0	0	3	6.0	107	37	6.1	4.8	80	60	29	23	52	
COKER 5110																							
WEST AREA																							
ARIZONA																							
2	MID	31	34	1.11	44	4.6	81	19	6.2	3.5	1	3	5.4	96	30	5.6	3.9	90	70	17	14	52	
STONEVILLE 213																							
2	SLM	41	35	1.09	46	5.1	88	24	6.8	2.5	2	3	5.4 1/2	107	35	5.8	4.4	100	70	17	12	55	
DEITAPINE 61																							
1	SLM	41	34	1.09	47	5.3	91	23	5.7	3.3	2	3	6.6	97	29	5.2	3.6	110	80	12	9	51	
STONEVILLE 213																							
1	SLM LT SP	42	35	1.13	44	4.0	78	24	8.3	3.5	3	3	5.6	110	36	7.0	5.1	80	60	26	23	67	
DELTAPINE 61																							
2	SLM	41	35	1.13	43	4.6	87	24	6.7	2.3	2	2	5.6	108	36	6.0	4.5	100	70	17	14	58	
DELTAPINE 16																							
1	SLM	41	34	1.07	44	5.2	89	24	6.5	3.2	3	3	6.1	94	30	5.1	3.9	90	70	23	19	44	
DELTAPINE 61																							
1	SLM	41	35	1.10	46	5.0	88	23	6.4	3.0	1	3	5.7	99	32	5.5	4.1	90	70	22	19	54	
QUEEN CREEK																							
1	SLM	41	35	1.10	46	5.0	88	23	6.4	3.0	1	3	5.7	99	32	5.5	4.1	90	70	22	19	54	
DELTAPINE 61																							

\* 100% selected for tests, less than 100% in the area.

1/ End breakage to high to spin 50s yarn. 36s yarn spun and strength adjusted to equivalent of 50s.

2/ Cotton stuck to processing rolls.



Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

Production Area, Classification				Fiber Test Results										Processing Test Results - Carded Yarns										
Sample Number				Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n	S.A. Non-Lint	Color Raw Stock		P & C Waste		Strength		Elongation		Appearance Index		Imprfct's		Spin. Potent-ial	
No	Grade	Stple	32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	Yel	Pct	Waste	Lbs	Lbs	Pct	Pct	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	No	
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1/ Cotton stuck to processing rolls.



Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1977

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
No	Grade Name & Code	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint		Color Raw Stock		P & C Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potent-ial		
				2.5% span	Unif.		Pct	In		Zero Gage	1/8" Gage	G/tex	Pct		No	Yel	No	Pct	Lbs	Lbs	22s or 27 tx	50s or 12 tx		Pct	No
SOUTHEAST AREA																									
ALABAMA JACKSONVILLE																									
3	SLM SP	43	34	1.12	46	4.7	91	24	COKER 310	6.2	4.4	4	4	4	6.7	96	31	85 PERCENT	3.7	5.4	100	90	20	13	58
GEORGIA MADISON																									
2	SLM LT SP	42	34	1.08	44	5.1	87	21	COKER 310	5.9	4.1	4	4	4	7.2	87	24	100 PERCENT	3.0	4.8	100	90	20	14	49
3	SLM SP	43	34	1.14	44	4.5	86	23		6.0	4.1	4	4	4	7.4	95	29	5.0	3.6	90	80	20	15	56	
NORTH CAROLINA DUNN																									
3	LM	51	35	1.15	46	4.8	87	24	COKER 310	6.3	2.9	4	2	6.7	106	36	90 PERCENT	4.0	5.3	100	80	22	18	64	
SOUTH CAROLINA HARTSVILLE																									
3	LM	51	37	1.18	47	4.5	94	25	COKER 310	5.8	3.3	3	2	6.6	107	37	100 PERCENT	4.0	5.2	100	90	23	19	69	
SOUTH CENTRAL AREA																									
MISSISSIPPI LAKECORMORANT																									
3	LM	51	36	1.19	46	4.6	95	25	COKER 310	5.3	5.3	4	2	8.1	107	36	100 PERCENT	3.9	5.0	100	80	21	17	64	
WEST AREA																									
NEW MEXICO HATCH																									
2	SLM LT SP	42	37	1.21	48	4.1	93	27	ACALA 1517-75	6.6	4.3	1	3	7.4	134	50	99 PERCENT	5.2	6.3	90	70	28	21	112	
LAS CRUCES																									
2	MID	31	36	1.19	46	4.0	95	27	ACALA 1517-V	6.4	1.4	0	3	5.2	131	48	100 PERCENT*	4.8	6.3	90	70	28	18	92	
WEST TEXAS CLINT																									
2	SLM	41	36	1.17	47	4.1	95	27	ACALA 1517-70	6.3	3.5	2	3	6.6 1/2	125	44	70 PERCENT	4.3	5.4	90	80	16	11	89	

\* 100% selected for tests, less than 100% in the area.

<sup>1/</sup> Cotton stuck to processing rolls.

